

IN THE SPECIFICATION:

On page 1 of the English translation of international application number PCT/EP01/04978,
replace paragraph 1 with the following:

A3 The invention relates to a control program, according to which a laser-beam spot is guided, while being controlled with respect to position and time, over a cornea to be corrected, so as to ablate a predetermined ablation profile therefrom. The invention also relates to an electronic computer and to a device for corneal surgery of the eye, in which a control program generated by means of the method is used.

IN THE CLAIMS:

A4 Please amend claim 1 with the following:

1. (once amended) A control program, according to which a laser-beam spot is guided, while being controlled with respect to position and time, over a cornea to be corrected, so as to ablate a predetermined ablation profile therefrom,

characterised in that, the control program takes into account the effect of the angle between the laser beam (68) and the corneal surface on the energy density of the laser-beam spot incident on the corneal surface.

Please cancel claims 2 through 17 without prejudice.

Please add the following new claims 18 through 34:

A5 18. Control program according to claim 1, wherein the time interval the laser-beam spot is incident on the corneal surface at an incident point (58) of the corneal surface is increased as a function of the distance (r) of the incident point (58) of the laser-beam spot centre on the cornea (54) from an axis running parallel to the laser-beam direction which axis meets the corneal surface at a right angle (z axis).

19. Control program according to claim 1 or 18, characterised in that, the effect of the distance r of the incidence point (58) of the laser-beam spot centre on the cornea (54) from an axis running parallel to the laser-beam direction which meets the corneal surface at a right angle